

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10. (Canceled)

11. (Currently Amended) A computer-implemented method of displaying a document using a browser, the method comprising:

- accessing a document;
- receiving user input of a selection of a first concept from a set of concepts;
- displaying a section of the document in a first viewing area of a display;
- extracting contents of the document, the contents comprising text and one or more elements;
- displaying a single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form;
- emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area; and
- dynamically changing the display of the contents in the single thumbnail image to reflect a change in the display of the document in the first viewing area;
- wherein extracting the contents of the document comprises:
- extracting one or more text entities contained in the document;
- determining dimension and coordinate information for the one or more text entities;
- determining if the one or more text entities are relevant to the first concept,
- wherein the determination is independent of a user selection of a second concept from the set of concepts; and

associating each text entity that is relevant to the first concept with style information for the first concept, wherein the style information for the first concept indicates a manner of annotating text entities which are relevant to the first concept.

12. (Previously Presented) The method of claim 11 wherein:
extracting the contents of the document comprises:

determining dimension information for the contents; and

determining coordinate information for the contents; and

displaying the single thumbnail image comprises:

displaying the contents in the single thumbnail image based on the
dimension and coordinate information for the contents.

13. (Previously Presented) The method of claim 12 wherein displaying the
contents in the single thumbnail image based on the dimension and coordinate information for
the contents comprises:

for each content:

determining position of the content in the single thumbnail image by
dividing the coordinate and dimension information for the content by a reduction ratio.

14. (Currently Amended) The method of claim 11 wherein each concept in
the set of concepts is specified as a set of keywords belonging to the concept. ~~extracting the
contents of the document comprises:~~

~~extracting one or more text entities contained in the document;~~

~~determining dimension and coordinate information for the one or more text
entities;~~

~~determining if the one or more text entities are relevant to one or more concepts
from a set of concepts; and~~

~~associating each text entity that is relevant to a concept with style information for
the concept, wherein the style information for a concept indicates a manner of annotating text
entities which are relevant to the concept.~~

15. (Currently Amended) The method of claim 14~~11~~ wherein displaying the single thumbnail image comprises:

for each text entity that is relevant to ~~a~~ the first concept ~~from the set of concepts~~, displaying the text entity in the single thumbnail image using the style information for the first concept.

16. (Currently Amended) The method of claim 15 further comprising:
modifying the style information for ~~a~~ the first concept thereby changing the appearance of the document displayed in the first viewing area;
wherein dynamically changing the display of the contents in the single thumbnail image comprises:

identifying text entities in the document which are relevant to the first concept; and

dynamically changing the display of the identified text entities in the single thumbnail image to reflect the modified style information.

17. (Previously Presented) The method of claim 11 wherein extracting the contents of the document comprises:

extracting one or more forms contained in the document; and
determining dimension and coordinate information for the one or more forms.

18. (Previously Presented) The method of claim 11 wherein extracting the contents of the document comprises:

extracting one or more image elements contained in the document; and
determining dimension and coordinate information for the one or more image elements.

19. (Currently Amended) A computer-implemented method of displaying a document using a browser, the method comprising:

accessing the document;

receiving user input selecting a ~~set of one or more~~first concepts from a plurality of concepts;

identifying, from previously defined information comprising associations between a plurality of text patterns and the plurality of concepts, one or more text patterns in the plurality of text patterns that are associated with ~~at least one concept in the set of~~first concepts, wherein the identification is independent of a user selection of a second concept from the plurality of concepts;

searching the document to identify occurrences of the one or more text patterns in the document;

displaying a section of the document in a first viewing area of a display such that the occurrences of the text patterns in the document are annotated;

extracting contents of the document, the contents comprising text and one or more elements;

displaying a single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form; and

emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area.

20 - 29. (Canceled)

30. (Currently Amended) A system for displaying a document using a browser, the system comprising:

a processor; and

a memory coupled to the processor and configured to store a plurality of modules for execution by the processor, the plurality of modules module including:

a module for accessing a document;

a module for receiving user input selecting a first concept from a plurality of concepts; a module for displaying a section of the document in a first viewing area of a display;

a module for extracting contents of the document, the contents comprising text and one or more elements, wherein the module for extracting the contents of the document comprises:

a module for extracting one or more text entities contained in the document;

a module for determining dimension and coordinate information for the one or more text entities;

a module for determining if the one or more text entities are relevant to the first concept wherein the determination is independent of a user selection of a second concept from the plurality of concepts; and

a module for associating each text entity that is relevant to the first concept with style information for the first concept, wherein the style information for the first concept indicates a manner of annotating text entities which are relevant to the first concept;

a module for displaying a single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form;

a module for emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area; and

a module for dynamically changing the display of the contents in the single thumbnail image to reflect a change in the display of the document in the first viewing area.

31. (Previously Presented) The system of claim 30 wherein:

the module for extracting the contents of the document comprises:

a module for determining dimension information for the contents; and

a module for determining coordinate information for the contents; and

the module for displaying the single thumbnail image comprises:

a module for displaying the contents in the single thumbnail image based on the dimension and coordinate information for the contents.

32. (Previously Presented) The system of claim 31 wherein the module for displaying the contents in the single thumbnail image based on the dimension and coordinate information for the contents comprises:

for each content:

a module for determining position of the content in the single thumbnail image by dividing the coordinate and dimension information for the content by a reduction ratio.

33. (Currently Amended) The system of claim 30 wherein each concept of the plurality of concepts is specified as one or more keywords belonging to the concept. ~~the module for extracting the contents of the document comprises:~~

~~a module for extracting one or more text entities contained in the document;~~

~~a module for determining dimension and coordinate information for the one or more text entities;~~

~~a module for determining if the one or more text entities are relevant to one or more concepts from a set of concepts; and~~

~~a module for associating each text entity that is relevant to a concept with style information for the concept, wherein the style information for a concept indicates a manner of annotating text entities which are relevant to the concept.~~

34. (Currently Amended) The system of claim ~~30~~³³ wherein the module for displaying the single thumbnail image comprises:

a module for displaying each text entity in the single thumbnail image that is relevant to ~~a~~ the first concept from the set of concepts using the style information for the first concept.

35. (Currently Amended) The system of claim ~~30~~³⁴ wherein the plurality of modules stored in the memory further comprises:

a module for modifying the style information for ~~a~~ the first concept;

in response to the modification:

a module for identifying text entities in the document which are relevant to the first concept; and

a module for dynamically changing the display of the identified text entities in the single thumbnail image based on the modified style information.

36. (Previously Presented) The system of claim 30 wherein the module for extracting the contents of the document comprises:

a module for extracting one or more forms contained in the document; and
a module for determining dimension and coordinate information for the one or more forms.

37. (Previously Presented) The system of claim 30 wherein the module for extracting the contents of the document comprises:

a module for extracting one or more image elements contained in the document;
and
a module for determining dimension and coordinate information for the one or more image elements.

38. (Currently Amended) A system for displaying a document using a browser, the system comprising:

a processor; and
a memory coupled to the processor and configured to store a plurality of modules for execution by the processor, the plurality of modules module including:

a module for accessing the document;
a module for receiving user input selecting a ~~set of one or more~~first concepts from a plurality of concepts;
a module for identifying, from previously defined information comprising associations between a plurality of text patterns and the plurality of concepts, one or more text patterns in the plurality of text patterns that are associated with ~~at least one concept in the set of~~first concepts, wherein the identification is independent of a user selection of a second concept from the plurality of concepts;

a module for searching the document to identify occurrences of the one or more text patterns in the document;

a module for displaying a section of the document in a first viewing area of a display such that the occurrences of the text patterns in the document are annotated;

a module for extracting contents of the document, the contents comprising text and one or more elements;

a module for displaying a single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form; and

a module for emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area.

39. (Canceled).

40. (Currently Amended) A computer program product stored on a computer readable storage medium for displaying a document using a browser, the computer program product comprising:

code for accessing a document;

code for receiving user input selecting a first concept from a plurality of concepts;

code for displaying a section of the document in a first viewing area of a display;

code for extracting contents of the document, the contents comprising text and one or more elements, wherein the code for extracting the contents of the document comprises:

code for extracting one or more text entities contained in the document;

code for determining dimension and coordinate information for the one or more text entities;

code for determining if the one or more text entities are relevant to the first concept wherein the determination is independent of a user selection of a second concept from the plurality of concepts; and

code for associating each text entity that is relevant to the first concept with style information for the first concept, wherein the style information for the first concept indicates a manner of annotating text entities which are relevant to the first concept; code for displaying a

single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form;

code for emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area; and

code for dynamically changing the display of the contents in the single thumbnail image to reflect a change in the display of the document in the first viewing area.

41. (Currently Amended) A computer program product stored on a computer readable storage medium for displaying a document using a browser, the computer program product comprising:

code for accessing the document;

code for receiving user input selecting a ~~set of one or more~~first concept from a plurality of concepts;

code for identifying, from previously defined information comprising associations between a plurality of text patterns and the plurality of concepts, one or more text patterns in the plurality of text patterns that are associated with ~~at least one concept in the set of~~first concepts, wherein the identification is independent of a user selection of a second concept from the plurality of concepts;

code for searching the document to identify occurrences of the one or more text patterns in the document;

code for displaying a section of the document in a first viewing area of a display such that the occurrences of the text patterns in the document are annotated;

code for extracting contents of the document, the contents comprising text and one or more elements;

code for displaying a single thumbnail image in a second viewing area of the display based on the contents extracted from the document, the single thumbnail image displaying the contents of the document in a continuous non-paginated form; and

code for emphasizing an area of the single thumbnail image corresponding to the section of the document displayed in the first viewing area.